

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>WO4-42303N</b>	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. <b>PCT/JP2005/002494</b>	International filing date (day/month/year) <b>17.02.2005</b>	Priority date (day/month/year) <b>19.02.2004</b>	
International Patent Classification (IPC) or national classification and IPC <b>H04L12/28 (2006.01) , H04Q7/38 (2006.01)</b>			
Applicant <b>NEC Corporation</b>			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <b>5</b> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <b>5</b> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>
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<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>
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Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/JP2005/002494

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 

This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
 
  - international search (Rule 12.3 and 23.1(b))
  - publication of the international application (Rule 12.4)
  - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):
 

the international application as originally filed/furnished

the description:
 

pages 1-24 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the claims:
 

nos. 2-12, 14-27, 29-31, 34 as originally filed/furnished

nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19

nos.\* 1, 13, 28, 32, 33, 35 received by this Authority on 2005.11.30

nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the drawings:
 

sheets fig. 1-21 as originally filed/furnished

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3.  The amendments have resulted in the cancellation of:
 

the description, pages \_\_\_\_\_

the claims, nos. \_\_\_\_\_

the drawings, sheets/figs \_\_\_\_\_

the sequence listing (*specify*): \_\_\_\_\_

any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 

the description, pages \_\_\_\_\_

the claims, nos. \_\_\_\_\_

the drawings, sheets/figs \_\_\_\_\_

the sequence listing (*specify*): \_\_\_\_\_

any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/JP2005/002494

Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims <u>4-6, 8, 10-12, 16-18, 20, 22-27, 29, 31, 34</u>	YES
	Claims <u>1-3, 7, 9, 13-15, 19, 21, 28, 30, 32, 33, 35</u>	NO
Inventive step (IS)	Claims <u>4-6, 8, 10-12, 16-18, 20, 22-27, 29, 31, 34</u>	YES
	Claims <u>1-3, 7, 9, 13-15, 19, 21, 28, 30, 32, 33, 35</u>	NO
Industrial applicability (IA)	Claims <u>1-35</u>	YES
	Claims _____	NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP 2003-198571 A (International Business Machines Corp.), 11 July 2003

Document 2: JP 2003-110570 A (Masupuro Denko Kabushiki Kaisha), 11 April 2003

Claims 1 to 3, 7, 9, 13 to 15, 19, 21, 28, 30, 32, 33 and 35

Document 1 discloses a wireless communication system that includes wireless base stations to be managed (i.e., access points (APs)) that have unique identifiers (i.e., Service Set Identifiers (SSIDs)), said wireless communication system being characterized by the inclusion of a means for detecting unauthorized wireless stations, which detects the presence or absence of unauthorized wireless stations based on the aforementioned unique identifiers that are included in the wireless frames (i.e., based on a comparison of the collected AP list and the registered AP list) (refer to fig. 6). In addition, document 1 also describes manipulating the router to which an unauthorized AP is connected in order to prohibit both the transmission of data to the unauthorized AP and the reception of data from the unauthorized AP (paragraph [0039]).

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In the invention disclosed in document 1, the APs are specified by detecting the SSIDs thereof; therefore, it is obvious that the SSIDs correspond to the APs.

Such being the case, it would have been obvious to a person skilled in the art to assign a different SSID to each of the APs in the invention disclosed in document 1.

Claims 4, 5, 16 and 17

Documents 1 and 2 do not disclose or suggest determining the type and/or the manufacturer of an unauthorized wireless station from the Basic Service Set (BSS) identifier thereof.

Claims 6, 18, 25 to 27, 31 and 34

Documents 1 and 2 do not disclose or suggest obtaining unique identifiers from the wireless base stations to be managed.

Claims 8, 20 and 29

Documents 1 and 2 do not disclose or suggest providing a means for notifying the wireless communication terminals to be managed that the use of unauthorized wireless stations is prohibited.

Claims 10, 11, 22 and 23

Document 2 discloses a technique for determining whether a wireless terminal is an authorized terminal or an unauthorized terminal based on whether the SSIDs match or not.

However, document 2 does not disclose or suggest the configuration wherein the means for detecting unauthorized wireless stations notifies the wireless base

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**Box No. V** **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

stations to be managed of unauthorized wireless communication terminals and thereby makes it impossible to communicate with the unauthorized wireless communication terminals that are connected to the wireless base stations to be managed.

Claims 12 and 24

Documents 1 and 2 do not disclose or suggest the configuration wherein the means for detecting unauthorized wireless stations notifies the wireless base stations that are within the range of an unauthorized wireless station of the identifier for identifying the Service Set Identifier of the unauthorized wireless station, and then a wireless base stations to be managed cancel the wireless frames that are received from wireless communication terminals that were connected using a value equal to that of the SSID in question.